PRV VAULT DIMENSION AND REINFORCING SCHEDULE

"L"=VAULT LENGTH
"W"=VAULT WIDTH

PIPE SIZE	STANDARD PRV VAULT DIMENSIONS: STANDARD PRV NO METER, NO BYPASS		STANDARD PRV NO METER, W/BYPASS		WITH PROPELLER METER AND NO BYPASS		WITH PROPELLER METER AND BYPASS		WITH MAGNETIC FLOW METER AND BYPASS		WALL THICKNESS		TOP THICKNESS: TRAFFIC	TOP THICKNESS: NONTRAFFIC	WALL REINFORCING: WITHOUT BYPASS			WALL REINFORCING: WITH BYPASS		
															"L"	"W"		"L"	"W"	
(IN)	"L"	"W"	"L"	"W"	"L"	"W"	"L"	"W"	"L"	"W"	L(t)	W(t)	T(t)	T(t)	a	a	b	a	a	b
6	10'–6"	5'–6"	11'–8"	8'–0"	10'–6"	5'–6"	14'–6"	8'–0"	15'–8"	8'–6""	1'–0"	1'–0"	1'–0"	0'–8"	#6 @ 12"	TYPICAL	TYPICAL	#5 @ 6"	TYPICAL	#6 @ 12"
8	10'–6"	5'–8"	12'–0"	8'–2"	10'–6"	5'–8"	15'–4"	8'–2"	16'–2"	8'–8"	1'–0"	1'–0"	1'–0"	0'–8"	#6 @ 12"	TYPICAL	TYPICAL	#5 @ 6"	TYPICAL	#6 @ 12"
10	10'–6"	5'–10"	13'–0"	8'–4"	11'–4"	5'–10"	17'–4"	8'–4"	17'–4"	8'–10"	1'–0"	1'–0"	1'–0"	0'–8"	#6 @ 12"	#6 @ 12"	TYPICAL	#5 @ 6"	#6 @ 12"	#6 @ 12"
12	10'–6"	6'–0"	13'–8"	8'–6"	12'–8"	6'–0"	19'–0"	8'–6"	18'–4"	9'–0"	1'–0"	1'–0"	1'–0"	0'–8"	#6 @ 12"	#6 @ 12"	TYPICAL	#5 @ 6"	#6 @ 12"	#6 @ 12"
14	10'–6"	6'–2"	14'–9"	8'–8"	14'–3"	6'–2"	21'–6"	8'–8"	20'–2"	9'–2"	1'–0"	1'–2"	1'–0"	0'–8"	#5 @ 6"	#5 @ 6"	#6 @ 12"	#5 @ 6"	#5 @ 6"	#6 @ 12"
16	10'–6"	6'–4"	15'–4"	8'–10"	16'–6"	6'–4"	24'–2"	8'–10"	21'–0"	9'–4"	1'–0"	1'–2"	1'–0"	0'–8"	#5 @ 6"	#5 @ 6"	#6 @ 12"	#5 @ 6"	#5 @ 6"	#6 @ 12"

DIMENSIONAL NOTES:

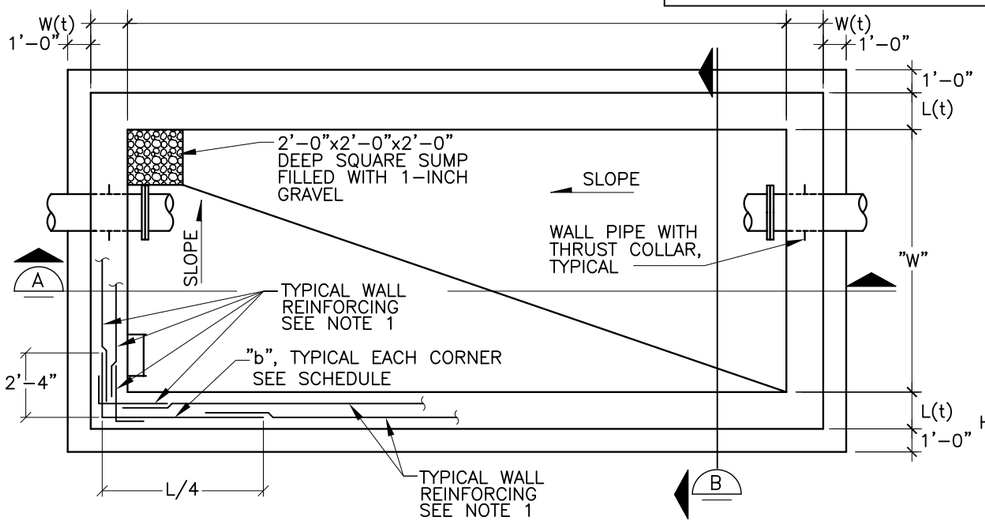
"L" = VAULT LENGTH
"W" = VAULT WIDTH
L(t) = WALL THICKNESS(LENGTH)
W(t) = WALL THICKNESS(WIDTH)
T(t) = TOP SLAB THICKNESS

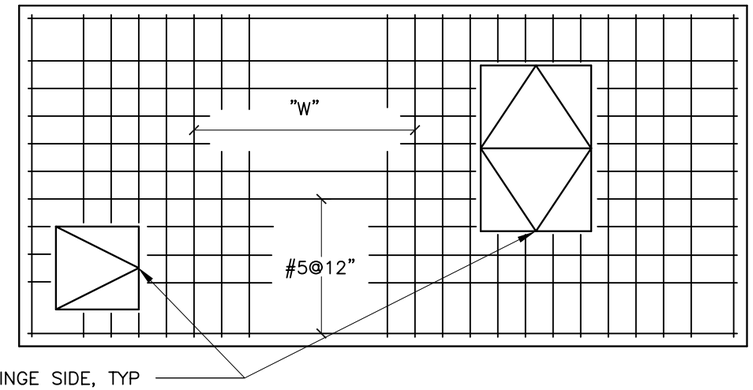
WALL REINFORCING NOTES:

1. "a" BAR DESIGNATION REPRESENTS WALL DOWELS PROTRUDING VERTICALLY FROM BASE SLAB ALONG LENGTHWISE DIMENSION "L" OR WIDTH DIMENSION "W".
2. "b" BAR DESIGNATION REPRESENTS ADDITIONAL HORIZONTAL WALL CORNER REINFORCING.

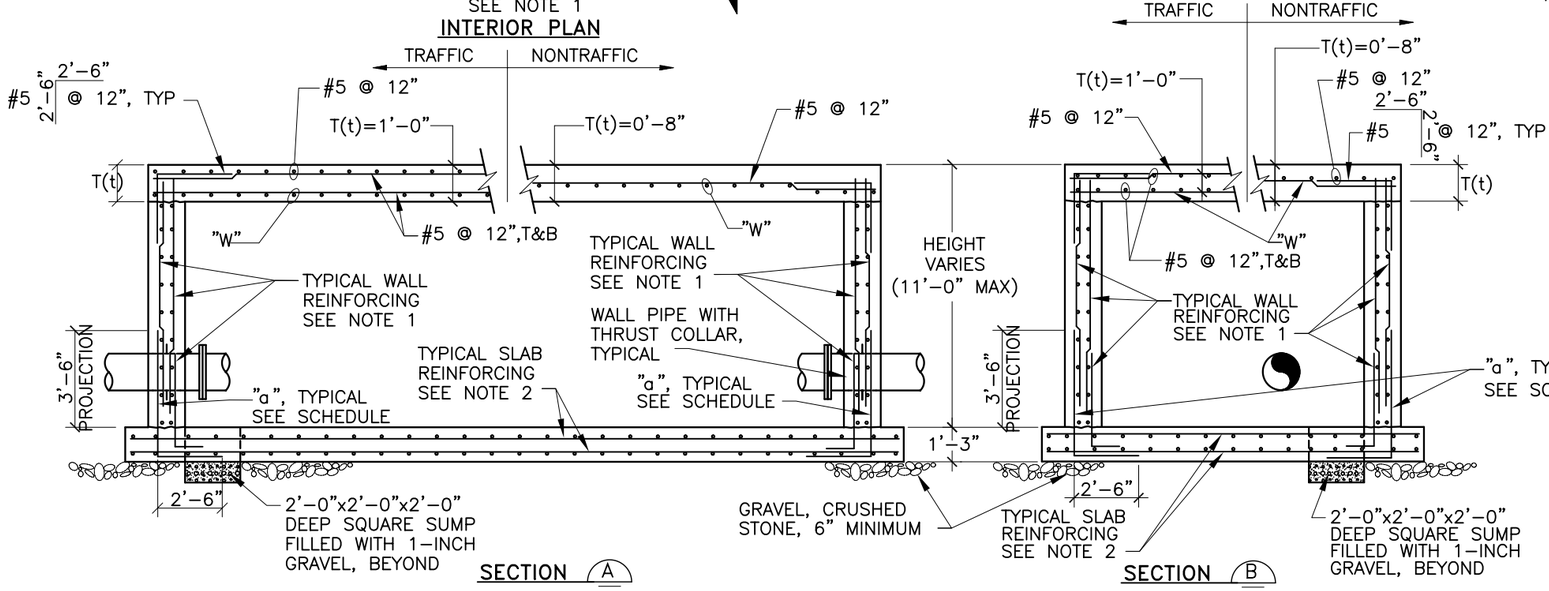
GENERAL NOTES:

1. TYPICAL WALL REINFORCING SHALL BE #5 @ 12" O.C., EACH WAY, EACH FACE UNLESS SHOWN OTHERWISE ON THE SCHEDULE. PROVIDE BARS AS INDICATED ON THE SCHEDULE AND LAP W/ #5 @ 12" FOR REMAINDER OF WALL HT. OR LENGTH.
2. TYPICAL BASE SLAB REINFORCING SHALL BE #5 @ 12" EACH WAY, TOP AND BOTTOM OF SLAB.
3. CONCRETE SHALL BE IN ACCORDANCE WITH STD SPEC SEC. 510 AND SEC. 101 FOR HYDRAULIC CONCRETE f'c=4000 psi @ 28 DAYS.
   ALL REINFORCING STEEL SHALL BE GRADE 60.
4. IF THE DEPTH OF VAULT EXCEEDS THE 11'–0" MAX. DEPTH SHOWN, THE ENGINEER/CONTRACTOR SHALL DESIGN THE REINFORCEMENT, WALL & FLOOR THICKNESS TO SUIT THE SPECIFIC CONDITIONS. ALL STRUCTURAL MODIFICATIONS SHALL BE DESIGNED AND STAMPED BY A LICENSED NEW MEXICO PROFESSIONAL ENGINEER.



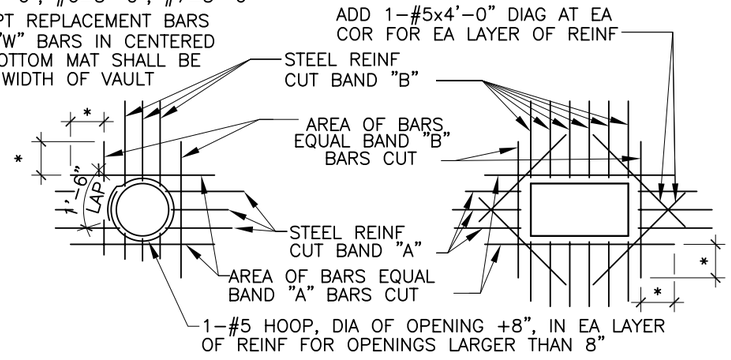


TOP PLAN



* #5=2'–6", #6=3'–0", #7=3'–6" EXCEPT REPLACEMENT BARS FOR "W" BARS IN CENTERED OR BOTTOM MAT SHALL BE FULL WIDTH OF VAULT

VAULT TOP REINFORCING		
VAULT DIMENSION	REINFORCING	
	T(t)=0'–8"	T(t)=1'–0"
	CENTERED MAT	BOTTOM MAT
"W"	"W"	"W"
≤6'–0"	#5 @ 12"	#5 @ 12"
>6'–0" ≤7'–0"	#5 @ 12"	#6 @ 12"
>7'–0" ≤9'–0"	#6 @ 12"	#7 @ 12"
>9'–0" ≤10'–0"	#7 @ 12"	#7 @ 12"



OPENING NOTES:

1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS.
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.

REVISIONS	CITY OF ALBUQUERQUE
	WATER
	STANDARD PRV STATION STRUCTURAL DETAILS
	DWG. 2357 JANUARY 2003